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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,102	05/30/2006	Deuk Soo KIM	2017-016	1999
52706 IPLA P.A.	7590 07/17/200	8	EXAMINER	
3580 WILSHIR	RE BLVD.		BOATENG, ALEXIS ASIEDUA	
17TH FLOOR LOS ANGELES, CA 90010			ART UNIT	PAPER NUMBER
			2838	
			MAIL DATE	DELIVERY MODE
			07/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/596,102	KIM, DEUK SOO		
Office Action Summary	Examiner	Art Unit		
	Alexis Boateng	2838		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>30 M</u> This action is FINAL . 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under E	s action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 30 May 2006 is/are: a)	wn from consideration. or election requirement. er.	by the Examiner.		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/30/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1 7, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Odahhara (U.S 2002/0161537) in view of Alwardi (U.S. 5,965,997).

Regarding claims 1, 4 – 7, 9, and 10, Odahhara discloses wherein a circuit for measuring the cell post voltage and internal impedance voltage in storage battery cells, comprising:

High Input Common Mode Voltage Differential Amplifier (paragraph [0040]; figure 2 item 66) and;

Reference Constant Voltage Circuit (paragraph [0055]) and;

Buffer Circuit (figure 2 item 69) and;

A/D converter and CPU (figure 2 item 62 paragraph [0038]). Odahhara does not disclose the remainder of the claim. Alwardi discloses wherein in figure 3 wherein items 106 – 108 make up an operational amplifier group. Alwardi further discloses in column 16 lines 21 - 43 wherein a low pass filter is used. It is obvious that this could be modified to be a band pass filter and a direct current filter. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the Odahhara system with the Alwardi system so

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that certain voltage levels and current levels are filtered so that the system is not damaged.

Regarding claims 2 and 3, Odahhara discloses does not disclose wherein A/D converter and CPU are replaced by A/D converter consisting of Multiplexer (MUX) circuit with a number of input channels and ADC circuit, and CPU. Alwadi discloses in figure 12 item 386 and column 20 lines 54 – column 21 lines 15 wherein a multiplexer circuit is used with the CPU. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Odahhara reference with the Alwadi reference so that multiple data signals may be effectively sent.

3. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Odahhara (U.S 2002/0161537) in view of Alwardi (U.S. 5,965,997) as applied to claim 7, and in further view of Frey (U.S. 5,708,348).

Regarding claim 8, Odahhara and Alwardi do not disclose the invention as claimed. Frey discloses in column 4 lines 55 – column 5 line 9 wherein zener diodes and a current limiting resistor is used within the system. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Odahhara and Alwardi system with the Frey system so that the constant voltage is controlled.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alexis Boateng whose telephone number is (571) 272-

5979. The examiner can normally be reached on 8:30 am - 6:00 pm, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ullah Akm can be reached on (571) 272-2361. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AB

/Bao Q. Vu/ Primary Examiner, Art Unit 2838

July 15, 2008